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APPLICATION NO.). FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/020,930		12/19/2001	Sang-Rok Lee	1143.41013X00	9887	
20457	7590	07/02/2003				
ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET				EXAMINER		
SUITE 1800)			WOODWARD, A	NA LUCRECIA	
ARLINGTO	ON, VA 2	2209-9889		ART UNIT PAPER NUMBER		
				1711	4	
				DATE MAILED: 07/02/2003	•	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	l l			
,	Office Action Summary Examiner			
	Examiner		Group Art Unit	
- The MAILING DATE of this communication appears	s on the cover sheet i	beneath the co	rrespondence addre	ss-
Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO OF THIS COMMUNICATION.	O EXPIRE Three	MONTH(S	FROM THE MAILIN	G DATE
 Extensions of time may be available under the provisions of 37 CFR from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a refl NO period for reply is specified above, such period shall, by default Failure to reply within the set or extended period for reply will, by stated that the period is a such period for reply will, by stated that the period is a such period for reply will, by stated the period for reply received by the Office later than three months after the main term adjustment. See 37 CFR 1.704(b). 	eply within the statutory m t, expire SIX (6) MONTHS t	ninimum of thirty (3) from the mailing days to become ARAN	0) days will be considered attended this communication	i timely.
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Status ☐ Responsive to communication(s) filed on	19/0/			
☐ This action is FINAL .				•
☐ Since this application is in condition for allowance except accordance with the practice under <i>Ex parte Quayle</i> , 1935	for formal matters, pro 5 C.D. 1 1; 453 O.G. 21	osecution as to	the merits is close	d in
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☐ The oath or declaration is objected to by the Examiner.				
iority under 35 U.S.C. § 119 (a)-(d)				
(Linear Property of Acknowledgement is made of a claim for foreign priority un	nder 35 U.S.C. § 119 (a	a)–(d).		
☑ All ☐ Some* ☐ None of the:				
☑ Certified copies of the priority documents have been recommended.				
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☑ Notice of Reference(s) Cited, PTO-892☐ Notice of Draftsperson's Patent Drawing Review, PTO-948				

U.S. Patent and Trademark Office PTO-326 (Rev. 11/00)

Part of Paper No.

*U.S. GPO: 2000-472-999/43204

Application/Control Number: 10/020,930

Art Unit: 1711

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. Claims 1-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, the basis upon which the recited amounts are determined is not apparent.

In claim 1, no difference is seen between the EPM and EPR copolymers since both are copolymers of ethylene and propylene. The same issue is also seen between EPR-g-MA and EPM-g-MA.

In claim 1, line 9, the "arylmethacrylate" is not understood.

In claim 1, do applicants intend copolymers (as opposed to unreacted monomers) for the recited MBS, EEA, SBR and EVOH?

In claim 1, the generic "various thermoplastic elastomers and plastomers" renders the metes and bounds of the Markush group indefinite as to its membership.

In claims 1, 5 and 10, "or mixtures thereof" constitutes improper Markush group format.

In claim 1, it is unclear as to whether "nylon plasticizer" denotes a nylon which is a plasticizer or a plasticizer for nylon.

In claim 1, it is unclear as to whether "nylon thickener" denotes a nylon which is a thickener or a thickener for nylon.

In claim 1, component E is generic to and does not distinguish over the "all-acrylic coreshell rubber" defining component B. Accordingly, components B and E read on one and the same core-shell rubber.

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In claim 1, no distinction can be seen between component D and the maleic anhydride copolymers defining component B. Accordingly, components B and D read on one and the same entity.

In claim 2, "or combinations thereof" constitutes improper Markush group format.

In claim 3, line 5, "compolymer" is queried.

In claim 3, do applicants intend copolymers (as opposed to unreacted monomers) for the "acrylonitrile-ethylenepropylene-styrene" and "acrylonitrile-styrene-alkylacrylate"?

In claim 3, it is unclear as to whether "the copolymer" is referring to the polyamide copolymer by itself or to the "copolymer blended or copolymerized".

In claim 6, the metes and bounds of "polyfunctional" are indefinite.

In claim 9, it is unclear what is meant by "reaction monomer".

In claim 12, are applicants claiming the mixture of a fuel tube and a hose?

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S.
- 5,179,164 (Lausberg et al) in view of U.S. 5,317,059 (Chundury et al).

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Lausberg et al disclose molding compositions comprising

A) from 10 to 89.5 parts by weight of one or more polypropylene homopolymers and/or copolymers,

- B) from 10 to 89.5 parts by weight of one or more polyamides,
- C) from 0.5 to 30 parts by weight of an ethylene copolymer as an adhesion promoter,
- D) from 0 to 30 parts by weight of an impact modifier and
- E) from 0 to 60 parts by weight of additives.

In table 3, patentees set forth various compositions which meet the requirements of the present claims with respect to components A, B, D and E and their contents.

In essence, the disclosure of Lausberg et al differs from the presently claimed invention in not expressly exemplifying the use of a plasticizer. It is maintained, however, that it would have been obvious to one having ordinary skill in the art to have utilized a plasticizer for its expected additive effect because plasticizers are disclosed as suitable additives at column 7, line 54. Accordingly, absent evidence of unusual or unexpected results, no patentability can be seen in the presently claimed invention.

As to claim 12, it is maintained that it would have been obvious to one having ordinary skill in the art to have prepared a tube or hose from Lausberg et al's composition. This is because it is known to process similar-such polymer compositions into shaped articles by blowmolding, etc. as taught by Chundury et al.

Any inquiry concerning this communication or earlier communications from the 4. examiner should be directed to Ana L. Woodward whose telephone number is (703) 308-2401. The examiner can normally be reached on Monday-Friday (8:30-5:00).

Application/Control Number: 10/020,930 Page 5 Art Unit: 1711 If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James J. Seidleck can be reached on (703) 308-2462. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-8183. Ana L. Woodward Examiner Art Unit 1711 AW June 25, 2003